

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,730	10/01/2003	Michael A. Bridges	VANS121762	2936
26389 7590 03/10/2008 CHRISTENSEN, O'CONNOR, JOHNSON, KINDNESS, PLLC 1420 FIFTH A VENUE			EXAMINER	
			KIM, SUN U	
SUITE 2800 SEATTLE, W	A 98101-2347		ART UNIT	PAPER NUMBER
,			1797	
			MAIL DATE	DELIVERY MODE
			03/10/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/676,730 BRIDGES ET AL Office Action Summary Examiner Art Unit JOHN KIM 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 29 November 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-26 and 28 is/are pending in the application. 4a) Of the above claim(s) 20-22 is/are withdrawn from consideration. 5) Claim(s) 1-19,25 and 26 is/are allowed. 6) Claim(s) 23.24 and 28 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on <u>01 October 2003</u> is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948).

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Paper No(s)/Mail Date 12/11/07

6) Other:

Notice of Informal Palent Application (P10-152)

Application/Control Number: 10/676,730 Page 2

Art Unit: 1797

 Claims 20-22 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Election was made without traverse in the reply filed on February 3, 2006.

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

 Claims 23-24 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hughes (US Patent No. 6,524,477 B1) in view of Worley et al (U.S. Patent No. 6,548,054).

Regarding Claim 23-24 and 28, Hughes discloses a gravity flow water purification cartridge, comprising: a purifier vessel (60) attached to an inlet head cap (12) providing inlet apertures (16) and a dwell chamber (58) in fluid communication with the purifier vessel (60) and enclosed within an outer skin (30) wherein the dwell chamber (58) exterior to the purifier vessel (60) wherein the dwell chamber (50) provides residence time for treatment of partially treated water and is in fluid communication with the purifier vessel (60) wherein a water outlet (56) is

positioned below the inlet apertures (16) (see Figs. 2-5; col. 4, line 66 - col. 6, line 8; col. 6, line 66 - col. 7, line 59). Hughes discloses that the purifier vessel (60) contains iodine anion exchange resin sintered with a polymer as biocides (see col. 13, line 52 - col. 14, line 6) but does not disclose a packed bed filled with beads made from polymer having pendant hydantoin groups. Worley et al teach biocides used for water purification including halogenated hydantoins in porous beads of highly crosslinked polystyrene packed in a column (Abstract; Col. 2, line 16 col. 3, line 65; col. 8, line 36 - col. 9, line 60). Simple substitution of Worley et al's packed bed filled with beads made from a polymer having halogenated hydantoins for Hughes' iodine anion exchange resin sintered with a polymer as biocides would achieve the predictable result of inactivation of pathogenic microorganisms and viruses in water and for inactivation of organisms causing noxious odors as suggested by Worley et al (see col. 4, lines 26-33; col. 5, lines 56-63). It would have been obvious to one of ordinary skill in the art at the time the invention was made to discover optimum loading of halogen onto a polymer having pendant hydantoin groups or halogenated polystyrene hydantoin for effective biocidal activity for water purification including claimed residual halogen concentration of less than 1 ppm. See In re Aller, 220 F.2d 454, 456, 105 USPO 233, 235 (CCPA 1955). Peterson, 315 F.3d at 1330, 65 USPO2d at 1382. Recitation of "wherein water flows from said water inlet and out through said water outlet under the force of gravity" is an intended use of the apparatus. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPO2d 1647 (1987).

4. Claims 1-19 and 25-26 are allowed.

Application/Control Number: 10/676,730 Page 4

Art Unit: 1797

 Applicant's arguments with respect to Claims 1-19, 23-26 and 28 have been considered but are moot in view of the new grounds of rejection.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

- 7. This application contains claims 20-22 drawn to an invention nonelected without traverse in the reply filed on 2/3/2006. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.
- Any inquiry concerning this communication or earlier communications from the
 examiner should be directed to JOHN KIM whose telephone number is (571)272-1142. The
 examiner can normally be reached on Monday-Friday 7 a.m. 3:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Sample can be reached on 571-272-1376. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/676,730 Page 5

Art Unit: 1797

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/John Kim/ Primary Examiner, Art Unit 1797

JK 8/24/07